

ABSTRACT OF THE INVENTION

A system for measuring seatbelt forces includes a guide that isolates a seatbelt force sensor 40 from input loads applied to the seatbelt at an angle. The system includes a rigid plate member 42 that supports the seatbelt force sensor 40, and which has one end attached to a portion of the seatbelt and an opposite end mounted to a guide bracket 70. The guide bracket 70 includes a pair of circular bosses 72 at one end for pivotally mounting the bracket 70 to a vehicle structure such as a B-pillar 68, for example. The bracket 70 guides the seatbelt in such a manner that input loads to the seatbelt that are applied at an angle do not affect the bending of the sensor 40.